# PATENT COOPERATION TREATY

INTERNATIONAL FREIMINARY EXAMINING AUTHORITY TO: KENNETA M. MASSARONI SCIENTIHIC-ATLANTA, INC. S008 SUGARLOAF PARKWAY (ATL 4.3.517) LAWRENCEVILLE, GA 30044						PCT Doal like WRITTEN OPINION 12/28	
						(PCT Rule 66)	
				. ^	Date of Mailing (day/month/year) 28 OCT 2003		
Applica	nt's or a	gem's	file reference	•	REPLY DUE	within 2 months/days from	
-7314-1					the above date of mailing		
recenati	onst sid	licati	on No.	International filing date	(day/month/year)	Priority date (day/month/year)	
	02/387			0S December 2002 (05		06 December 2001 (06.12,2001)	
nternati	oust Pat	tent C	lassification (IPC)	or both national classific	ation and IPC		
		/16,	991 and US CL: 7	25/142; 386/70			
Applica	n						
CIENT	TRIC-A	TLA	VTA, INC.				
	799. 1					Part of the state	
ī.	3 1338	MIM	m opinion is the til	St_thrst, etc.) activities by	THE INCOMPLICATION OF	climinary Examining Authority.	
2.	This	opini	on contains indicat	ons relating to the follow	áng items:		
	1	$\boxtimes$	Basis of the opini	203			
	11						
	m	П	Non-establishmen	t of opinion with researd	to novelty, inventive	step and industrial applicability	
	īV	F	Lack of unity of i				
	y	$\boxtimes$			with regard to nove	by, inventise step or industrial applicability;	
			citations and expl	mations supporting such	Sinksmook		
	VI		Censin document	s cited			
	VII	П	Certain defects in	the international applicat	ion		
	VIII Certain observations on the international app						
3.	The applicant is hereby invited to reply to the					ice the expiration of that time limit, remove	
				the grant an extension. S		re do espiraced-o-tra-ume-rano, request	
	Bow? By submitting			g a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3, and the language of the amendments, see Rules 66.8 and 66.9.			
	For the exami		For the exam	onal apparaunity to saltunit amendments, see Rule 66.4. ther's obligation to consider amendments anchor arguments, see Rule 66.4 bits, and communication with the examiner, see Rule 66.6			
	35 84	nopl	r is filed, the inser	actional prefiminacy exac	nunation report will b	e established on the basis of this opinion.	
4				nemational preliminary nablished according to R	ule 69.2 is: 06 April	2004 (06.14,2004)	
Name			iddress of the IPEA	/US	Authorized office	Rugenia Zogan	
Mail Stop PCT, Attn. IFEA/US Commissroses for Patents P.G. Box 1450					Andrew Paile	Middle Jaka	
	Alexan	trus, v	irginis 22313-1450 35-32.30		Telephone No. (	703) 305-4700 .	

# WRITTEN OPINION

International application No.	
PCT/US02/38777	

Į.	Basis of the opinion	
1.	With regard to the elements of the international application:	
	the international application as originally filled  the description:  pages 1-55  pages NONE  pages NONE  the claims:  pages NONE  the drawings:  the drawings:  as originally filed  the drawings:  as originally filed	
	pages NONE Aled with the demand pages NONE Bled with the letter of	
	the sequence listing part of the description: pages NONE as originally filed pages NONE filed with the demand pages NONE filed with the deter of	ward provided and a file and a feet
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following languages with the language of a translation furnished for the purposes of international search (under Rule23.1(b)).  In the language of a translation of the international application (under Rule 43.3(b)).  The language of the translation furnished for the purposes of international preliminary examination furnished for the purposes of international purposes.	THE COURSE AND ADDRESS OF THE PROPERTY OF THE
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:	-
	contained in the international application in printed form.	Ì
	tiled together with the international application in computer readable form.	
	farnished subsequently to this Authority in written form.	-
	furnished subsequently to this Authority in computer readable form.	
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	-
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been formished.	-
4.	The amendments have resulted in the cancellation of	
5.	housed 2	
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70,2(c)).	
the	Replacement sheets which have been furmshed to the receiving Office in response to an invitation under Article 14 are referred to in s opinion as "originally filed."	

# WRITTEN OPINION

International application No PCT/OS02/38777

<ul> <li>V. Reasoned statement under Rule 66.2(a)(ii citations and explanations supporting sucl</li> </ul>			al applicability;
1. STATEMENT			
Novelty (N)	Claims	2 16, 21-24, 26-40, and 45-48	YES
	Claires	1, 17-20, 25, and 41-44	NO
Inventive Step (IS)	Claims	NONE	YES
	Claims	1-48	NO
Industrial Applicability (IA)	Claims	1-48	YES
	Claims	NONE	NO
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet			

International application No PCT/US02/38777

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

#### TIME LIMIT

The time limit set for response to a Written Opinion may use he extended, 37 CFR 1.484(d). Any response received after the expiration of the lime limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Respect.

### V. 2. Citations and Explanations:

Claims 1, 17-20, 25, and 41-44 lack novelty under PCT Article 33(2) as being anticipated by U.S. Pasent 5,371,551 to Logan et al.

Regarding claims: 1 and 25, Logan teaches a broadcast recording and playback device that concurrently records and playback programming simultaneously. Logan teaches memory for storing logic in order to execute commands of the microprocessor (fig. 1, label 11) (col. 3, B. 25-33). Logan teaches memory, which is buffer space used for continuously buffering media informaci). Logan does not explicitly teach logic representing the instances us a management lib. The exeminar notes that the system of Logan dearly must represent the media in the buffers in order to properly manage the circular buffers thereby preventing over-writing data.

Regarding claims 17-18 and 41-42, Logan teaches receiving analog media (fig. 1) at the device (which equates to a communication interface and a consumer electronics device).

Regarding claims 19-20 and 43-44, Logan teaches receiving digital media (fig. 1) at the device (which equates to a communication user face and from a regions server) (col. 4, ii), 40-56)

Chains 2, 5-12, 21-24, 26, 29-36, and 45-48 lack an investive step under PCT Article 33(3) as being obvious over U.S. Patent 5,371,551 to Locan et al.

Regarding claims 2 and 26, Legan is silent on tracking the duration of the buffered media. Further, the examiner mass that flags denoing the satus of the circular buffers are well known in the art. Therefore, it lacks an inventive step to track the cluration of the buffered modils in the circular buffers in order to provide data innerity by prevent overwritine data.

Regarding claims 5-7 and 29-31, Logan teaches a start and end time for recording (col. 2, li. 46-52). Logan clearly idealnes tracking the indirect data in order to prevent buffer undertun and overrun problems. Further, one would resultly recognize that the dutation of a pregram can be determined from authorizing the end time from the start time of the program.

Regarding skinns 8-19 and 30-34, Logan is silent on a data structure including guide data, saur time, playback licenton, in statis, and fife turame. The use of data structures (which includes in linked) lists and pointiesy for that are well flower in it and Therefore, it lacks an inventive step to use a data structure, link last, and linked lists of pointers for storing guide data, start time, phylynack foreign, statis, and its mile of the depth of the data of the data

WRITTEN OPINION

International application No. PCT/US02/38777

### Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Regarding clasms 11 and \$5. Logan is silent on using and surring the scheduled as up time of the media to determine when no voice the management file for the mediad metal and spown as new file file the metal metals. Closing and opening sessions (e.g., media instances) are well known in the art. Therefore, it locks an inventive step to close and open files for new instances in order to efficiently process information.

Regarding claims 12 and 36, Lugan is silent on a sunt time as the internal clock. Use of the internal clock is well known. Therefore, it lacks an invanive step to use the internal clock of a device as the start time in order to provide a reference time thereby increasing reference.

Regarding chims 21:22 and 45-46. Logan teaches buffering from a processing unit (claimed local device) (col. 3, ll. 8-(1), but is sited on a local network. Local networks are well known in the art. It lacks an inventive step to use a local network in order to make the device use givenes and practical in other configurations.

Regarding claims 23 and 47. Logan is silent on a flag denoting media as temporary. Flags are well known in the art. It lacks an inventive step to use flags as denoting temporary media in order to facilitate proper management of the data in the system.

Regarding claims 24 and 48, Logan is silent on a flag denoting media as permanent. Flags are well known in the art. It is its an inventive step to use flags as denoting permanent media in order to facilitate proper management of the data in the system.

Claims 3-4, 13-16, 27-28, and 37-40 lack an inventive step under PCT Article 33(3) as being obvious over U.S. Patent 5,371,551 in Logar et al. in view of U.S. Patent 5,701,383 to Russo et al.

Regarding claims 3.4 and 27-28, Logan is aftern on a hard disk, which is usught by Russo (col. 2.3, H. 38-6). Accordingly, it lacks an inventive step to use a hard disk as taught by Russo in order to store the data permanently. Logan teacher real-time playback (col. 1, H. 46-60).

Regarding claims 13 and 37, the combination of Logan and Russo waches storing data on hard drives, which clearly can identify the recorded data.

Regarding dalins 14-16 and 38-40, Logue and Deuso are silent on randomly generated names, names using gaide dats, channel number, tile, and source. Esc of randomly generated mennes, names using gaide dats, channel number, tile, and source are well lostown in the art. Therefore, It hadrs an inventive step to use randomly generated names, names using guide dats, channel number, tile, and source in tarder to propeptly lossify the recorded group time.